

## Wilsonart® 121 Adhesive Cleaner

MSDS Number: 16376

Revision Date: 1/3/2008

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### 1 PRODUCT AND COMPANY IDENTIFICATION

**Common Name**            **Wilsonart® 121 Adhesive Cleaner**

**MANUFACTURER**        **WILSONART INTERNATIONAL, INC.**  
**P.O. BOX 6110 - 2400 WILSON PLACE**  
**TEMPLE, TX 76503**  
**INFORMATION PHONE:        800-433-3222 (USA)**

**Trade Name**            **WA 121 adhesive cleaner**

**MATERIAL USES**        **Cleaning solvent for laminates.**

**Revision #**            **17**

#### IN CASE OF EMERGENCY CONTACT

**CHEMTREC:**            **800-424-9300 (USA)**  
**703-527-3887 (INTERNATIONAL)**

### 2 HAZARDS IDENTIFICATION

**Route of Entry:**            Skin, eyes, and respiratory tract.

**Target Organs:**            Chronic overexposure may effect the central nervous system, kidneys, and/or liver or cause irregular heartbeat. May cause peripheral nervous system effects.

**Inhalation:**                Inhalation vapors may cause dizziness, light-headedness, nausea, headache, loss of consciousness and death. Can be fatal if inhaled or ingested. May cause Central nervous system depression and peripheral neuropathy (numbness in limbs) .

**Skin Contact:**             May cause skin irritation. Prolonged exposure may result in dermatitis with dried or cracked skin. Permeator (absorbed through the skin).

**Eye Contact:**              May cause eye irritation.

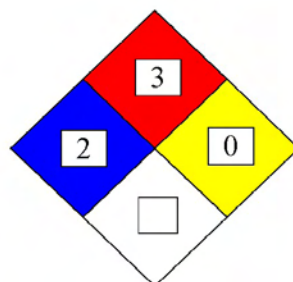
**Ingestion:**                 Not an expected route of entry. Ingestion may cause nausea, vomiting, dizziness, and gastrointestinal irritation.

**DANGER!**  
**FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED. USE ONLY WITH ADEQUATE VENTILATION.**

#### HMIS (United States):

HEALTH	2*
FLAMMABILITY	3
REACTIVITY	0
PPE	C

#### NFPA (United States):



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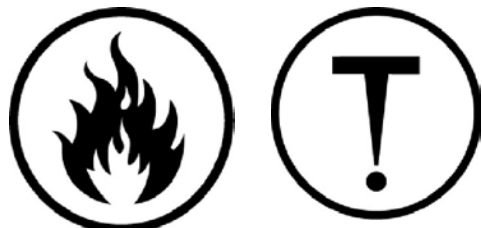
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\*See Section 11.

WHMIS (Canada): B2, D2A.



### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS#	% by weight
Light Hydrotreated Distillate	68410-97-9	65 - 100
n-Hexane	110-54-3	1.5% max.
n-Pentane	109-66-0	23% max.
Cyclohexane	110-82-7	7.5% max.

### 4 FIRST AID MEASURES

<b>Inhalation:</b>	Remove patient to fresh air. If patient is having difficulty breathing seek immediate medical attention. If not breathing, clear airway and start mouth-to-mouth artificial respiration (or use bag-mask respirator). Get immediate medical attention.
<b>Skin Contact:</b>	Wash affected areas with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.
<b>Eye Contact:</b>	Flush eyes with water for 15 minutes. Remove contact lenses prior to water flush. Seek medical attention.
<b>Ingestion:</b>	Give patient 3 - 4 glasses of water. DO NOT induce vomiting. Get immediate medical attention. DO NOT give anything by mouth to an unconscious person.

#### Note to physician:

Sudden death due to ventricular fibrillation has been reported from acute inhalation in chronic solvent abusers. Treat patient supportively. Life support measures should be provided because CNS depression, cardiopulmonary failure, and metabolic acidosis have been reported in massive overexposures.

### 5 FIRE FIGHTING MEASURES

<b>Flash Point:</b>	-16.7 °C (2.0 °F)
<b>Flash Point Method:</b>	CLOSED CUP
<b>Autoignition Temperature:</b>	Lowest known value is 225 °C (437 °F, for n-Hexane).
<b>LEL:</b>	1%
<b>UEL:</b>	8%
<b>Flammability Classification:</b>	Flammable

#### General Hazard:

Flammable liquid, insoluble in water.

Highly flammable in presence of open flames and sparks. Flammable in the presence of heat and/or oxidizing materials.

Risks of explosion of the product in the presence of mechanical impact is not available.

Risks of explosion of the product in the presence of static discharge: Static discharge may serve as an ignition source to closed containers of product.

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For small spill: use dry chemicals, CO<sub>2</sub>, or alcohol foam.

For large spill: use dry chemicals, CO<sub>2</sub>, or foam. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Firefighting equipment:

Use self contained breathing apparatus with a full face piece and pressure-demand or other positive-pressure mode.

Special Remarks:

Container explosion may occur under fire conditions or when heated.

All electrical equipment in the area must be rated for flammable liquids (Dispensing - Class I, Division 1; Storage - Class 1, Division 2). Ground all containers of this material.

Hazardous products of combustion include carbon oxides (CO, CO<sub>2</sub>).

### 6 ACCIDENTAL RELEASE MEASURES

**Small Spill and Leak:** Absorb with an inert material and place in an appropriate waste disposal container.

**Large Spill and Leak:** Flammable liquid insoluble in water. Eliminate all ignition sources. Stop leak if without risk. Prevent entry into sewers, basements or confined areas; dike if needed. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Do not use metal tools or equipment.

### 7 HANDLING AND STORAGE

**Handling Precautions:**

To avoid fire or explosion, dissipate static electricity during transfer by bonding and grounding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Avoid breathing vapors. Handle in well ventilated areas. After handling always wash hands thoroughly with soap and water. Avoid contact with skin or eyes. When using do not drink or smoke.

**Storage Requirements:**

Flammable materials should be stored in a separate safety cabinet or room. Store and use away from heat, sparks, open flame, or any other ignition source. Keep in a cool, well ventilated area. Ground all equipment containing material. Keep out of reach of children.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that a working eyewash and safety shower are in the work area.

**Protective Equipment:**

Wear splash goggles or safety glasses with side shields, synthetic apron, and neoprene or rubber gloves. In case of insufficient ventilation, wear an approved (NIOSH) respirator with organic vapor cartridges with dust/mist pre-filter.

**Exposure Guidelines/Other:**

<u>Product Name</u>	<u>Exposure Limits</u>
Light hydrotreated distillate	ACGIH (TWA): 500 ppm, NIOSH 350 mg/m <sup>3</sup>
n-Hexane	ACGIH (TWA): 50 ppm OSHA (TWA): 500 ppm
n-Pentane	ACGIH (TWA): 600 ppm, OSHA (TWA): 1000 ppm NIOSH (TWA): 120 ppm, 610 ppm CL
Cyclohexane	ACGIH (TWA): 100 ppm OSHA/NIOSH (TWA): 300 ppm

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Consult local authorities and local regulations for exposure limits.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, colorless liquid.	<b>Boiling Point:</b>	80 °C (176 °F)
<b>Physical State:</b>	Liquid.	<b>Freezing/Melting Pt.:</b>	May start to solidify at -95 °C (-139 °F) based on n-Hexane.
<b>Odor:</b>	Solvent-like.	<b>Solubility:</b>	Insoluble in water.
<b>pH:</b>	Not available.	<b>Spec Grav./Density:</b>	5.8 lbs./gal.
<b>Vapor Pressure:</b>	150.1 mm of Hg (@20°C)		
<b>Vapor Density:</b>	2.97 (Air=1, n-Hexane).		
<b>VOC:</b>	5.85 lbs/gal (702 g/L), VHAP Content: 0.09 lbs./gal. (10 g/L)		
<b>Molecular Weight:</b>	Not applicable		
<b>Viscosity:</b>	Not available.		
<b>Percent Volatile:</b>	100%		
<b>Molecular Formula:</b>	Not applicable.		

### 10 STABILITY AND REACTIVITY

<b>Stability:</b>	This product is stable when used as intended.
<b>Conditions to avoid:</b>	Avoid heat sources, open flames, and sparks.
<b>Materials to avoid (incompatibility):</b>	Reactive with acids, alkalis, combustable materials, oxidizing agents, reducing agents.
<b>Hazardous Decomposition products:</b>	Products of combustion include carbon oxides (CO, CO2).
<b>Hazardous Polymerization:</b>	Will not occur.

### 11 TOXICOLOGICAL INFORMATION

**Toxicity to Animals:** Acute oral toxicity (LD50) 8.0 ml/kg (rat). (Cyclohexane). Anesthetic to mice at 7% concentration in 10 min. (n-pentane), Inhalation 40% dose resulted in death of mice (n-pentane). Inhalation 15,000 ppm fatal within 70 min. (mice).

**Chronic Effects on Humans:**

**CARCINOGENIC EFFECTS:** Not classifiable for human or animal.

**MUTAGENIC EFFECTS:** Classified none for human.

**TERATOGENIC EFFECTS:** Not classifiable for human or animal.

**DEVELOPMENTAL TOXICITY:** Causes damage to the following organs: kidneys, liver, central nervous system (CNS). N-hexane is a neurotoxin.

**Other Toxic Effects on Humans:** No additional information.

**Special Remarks on Toxicity to Animals:** No additional remark.

**Special Remarks on Chronic Effects on Humans:** No additional information.

**Special Remarks on Other Toxic Effects on Humans:** Persons with pre-existing skin disorders may be more susceptible to the effects of solvents.

### 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	<b>Not available</b>
<b>BOD5 and COD</b>	<b>Not available</b>
<b>Biodegradable/OECD</b>	<b>Not available</b>

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**Toxicity of the Products of Biodegradation** Not available  
**Special Remarks on the Products of Biodegradation** No additional remark

### 13 DISPOSAL CONSIDERATIONS

Spilled, contaminated, or waste material should be put into a suitable container and handled according to local, state, provincial, and federal regulations. Contact a qualified waste management company in your area for assistance. Empty containers should be either reconditioned by CERTIFIED firms or properly disposed of by approved firms. Disposal of containers should be in accordance with applicable laws and regulations. "Empty" drums should not be given to individuals. Serious accidents have resulted from the misuse of "emptied" containers. Residual vapors in the containers may be explosive. Do not cut, weld, or braze these containers.

Dispose of in accordance with Federal, State, and local regulations.

### 14 TRANSPORT INFORMATION

**DOT Classification:** Class 3: Flammable liquid. Flammable liquid, n.o.s. (contains pentane, cyclohexane), 3, UN1993, II, Limited Quantity: 1 L  
**ADR/RID Classification** -- Class 3: Flammable liquid A.  
**IMO/IMDG Classification** -- Class 3: Flammable liquid.  
**ICAO/IATA Classification** -- Class 3: Flammable liquid.

### 15 REGULATORY INFORMATION

#### U.S. Federal Regulations

OSHA (29 CFR 1910.1200) - Hazardous.  
CERCLA Reportable quantity (Rq) values:  
n-Hexane 5000 lbs.  
Cyclohexane 1000 lbs.

TSCA inventory: cyclohexane, n-pentane, n-hexane, light hydrotreated distillate.  
SARA 302/304/311/312 extremely hazardous substances: none.  
SARA 302/304 emergency planning and notification: none.  
SARA 302/304/311/312 hazardous chemicals: none.  
SARA 311/312 MSDS distribution, chemical inventory: none.  
SARA 313 toxic chemical notification and release reporting: cyclohexane, n-pentane, n-hexane.  
CWA 307: None.  
CWA 311: None.  
CAA 112 accidental release prevention: n-pentane.  
CAA 112 regulated flammable substances: n-pentane.  
CAA 112 regulated toxic substances: n-pentane.

#### International Regulations

EINECS - The chemicals in this product are listed.  
DSL - cyclohexane, n-pentane, n-hexane, light hydrotreated distillate.  
WHIMS - B2, D2A

## State Regulations

Pennsylvania RTK: cyclohexane, n-pentane, n-hexane.  
New Jersey RTK: cyclohexane, n-pentane, n-hexane.  
Massachusetts RTK: cyclohexane, n-pentane, n-hexane.  
California Prop. 65: None.

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## OTHER INFORMATION

### References

Lewis, R. J., Rapid Guide to Hazardous Chemicals in the Workplace, 4<sup>th</sup> ed., Wiley-Interscience, New York, 2000.  
NIOSH Pocket Guide to Chemical Hazards, Department of Health and Human Services, National Institute for Occupational Safety and Health, 2004.  
Patty's Toxicology, John Wiley & Sons, Inc., New York, 2001  
TLVs and BEIs, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Agents, ACGI Worldwide, Cincinnati, 2003.

### Glossary

ACGIH - American Conference of Governmental Industrial Hygienists  
ASTM - American Society for Testing and Materials  
ADR - Agreement on Dangerous Goods by Road (Europe)  
BOD5 - Biological Oxygen Demand in 5 days  
CAA - Clean Air Act  
CAS - Chemical Abstracts Services  
CEPA - Canadian Environmental Protection Act  
CERCLA - Comprehensive Environmental Response, Compensations and Liability Act  
CFR - Code of Federal Regulations  
CWA - Clean Water Act  
DOT - Department of Transportation  
DSCL - Dangerous Substances Classification and Labeling (Europe)  
DSL - Domestic Substance List (Canada)  
EEC/EU - European Economic Community/European Union  
EINECS - European Inventory of Existing Commercial Chemical Substances  
HCS - Hazard Communication System  
HMIS - Hazardous Material Information System  
IARC - International Agency for Research on Cancer  
LD50/LC50 - Lethal Dose/Concentration kill 50%  
LDLo/LCLo - Lowest Published Lethal Dose/Concentration  
NFPA - National Fire Prevention Association  
NIOSH - National Institute for Occupational Safety & Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety & Health Administration  
PEL - Permissible Exposure Limit  
RCRA - Resource Conservation and Recovery Act  
SARA - Superfund Amendments and Reorganization Act  
STEL - Short Term Exposure Limit (15 minutes)  
TDG - Transportation of Dangerous Goods (Canada)  
TLV-TWA - Threshold Limit Value-Time Weighted Average  
TSCA - Toxic Substances Control Act  
WHMIS - Workplace Hazardous Material Information System

# **MSDS** *Material Safety Data Sheet* Wilsonart International



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**CHEMTREC:**

800-424-9300 (USA)

703-527-3887 (International)

**Notice to Reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named manufacturer nor any of its subsidiaries assumes any liability whatsoever for accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

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END OF MSDS DOCUMENT